



Missouri
Department of
Natural Resources

KCP&L Greater Missouri Operations Company
Electric Generation and Emissions in 2011

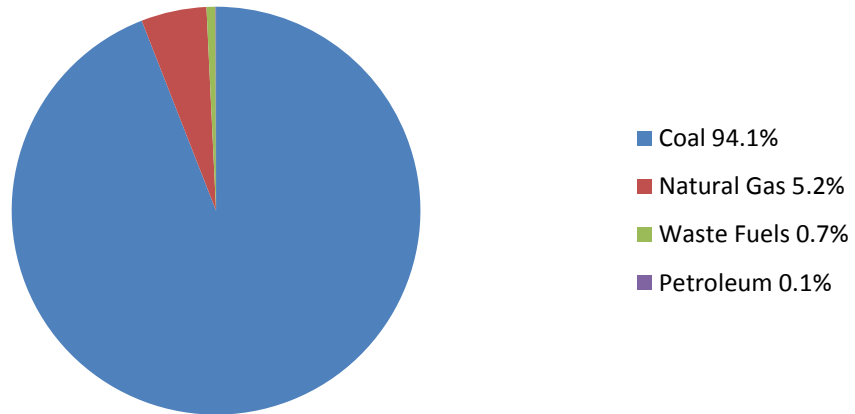
Generation Tables

	Fuel Consumption, MMBTUs	Percent of Total		Net Electric Power Generated, MWh	Percent of Total	
Non-renewable sources						
Coal	31,767,014	92.5%	91.8%	2,700,720	94.7%	94.1%
Natural Gas	2,538,722	7.4%	7.3%	148,707	5.2%	5.2%
Petroleum	35,832	0.1%	0.1%	1,489	0.1%	0.1%
Nuclear						
Other						
Non-renewable total	34,341,568	100.0%	99.3%	2,850,915	100.0%	99.3%
Renewable sources						
Biomass						
Hydroelectric						
Landfill Gas						
Solar						
Waste Fuels	259,111	100.0%	0.7%	20,024	100.0%	0.7%
Wind						
Wood						
Renewable total	259,111	100.0%	0.7%	20,024	100.0%	0.7%
Grand total	34,600,679		100.0%	2,870,939		100.0%

Fuel Type	Physical Units	Number of Units
Anthracite Coal and Bituminous Coal	Short Tons	173,435
Sub-bituminous Coal	Short Tons	1,583,533
Natural Gas	MCf	2,465,069
Distillate Fuel Oil	Barrels	6,176
Gaseous Propane	MCf	29,460
Tire-derived Fuels	Short Tons	9,645



Net Generation by Fuel Type, 2011 for KCP&L Greater Missouri Operations Company





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Power Plant Nameplate information for KCP&L Greater Missouri Operations Company

Plant Name	County Location	Nameplate Capacity (MW)
<i>KCP&L Greater Missouri Operations Company</i>		6,025.2
Nevada	Vernon	88.0
Ralph Green	Cass	296.0
Sibley	Jackson	2,096.0
Lake Road	Buchanan	1,093.2
Greenwood	Jackson	976.0
Kansas City International	Platte	72.0
South Harper	Cass	1,404.0



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Emissions from Electricity Generated in 2011: KCP&L Greater Missouri Operations
Company

	CO2 Equivalent (TONS)	Carbon Dioxide (CO2) (TONS)	Methane (CH4) (TONS)	Nitrogen Dioxide (NO2) (TONS)
<i>KCP&L Greater Missouri Operations Company</i>	<i>118,944,722</i>	<i>14,244,993</i>	<i>1,588,662</i>	<i>230,122</i>
Greenwood	137,288	68,200	1,306	134
Lake Road	25,630,070	3,162,339	342,117	49,301
Nevada	2,944	669	27	5
Ralph Green	8,712	4,399	83	8
Sibley	92,748,177	10,798,594	1,241,153	180,275
South Harper	417,531	210,793	3,976	398

	Sulfur Dioxide (SO2) (TONS)	Annual Nitrogen Oxide (NOx) (TONS)	Summer Nitrogen Oxide (NOx) (TONS)
<i>KCP&L Greater Missouri Operations Company</i>	<i>34,314</i>	<i>0.0240</i>	<i>0.0233</i>
Greenwood	0	0.0000	0.0000
Lake Road	3,925	0.0096	0.0093
Nevada	0	0.0000	0.0000
Ralph Green	0	0.0000	0.0000
Sibley	30,389	0.0144	0.0140
South Harper	0	0.0000	0.0000



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Identified Flue Gas Desulfurization (FGD) controls installed on plants operated by KCP&L Greater Missouri Operations Company

Plant	Control Equipment	Sorbent Type
	No FGD Controls Installed	

Identified Flue Gas Particulate (FGP) controls installed on plants operated by KCP&L Greater Missouri Operations Company

Plant	Control Equipment
Sibley	Electrostatic precipitator, cold side, without flue gas conditioning
Lake Road	Electrostatic precipitator, cold side, with flue gas conditioning
Lake Road	Electrostatic precipitator, cold side, without flue gas conditioning

Notes:

Generation, emissions and pollution control data include power plants owned by the utility and located in Missouri.

Emissions data calculated by Missouri Department of Natural Resources, Division of Energy, from EIA Fuel Consumption Data

Fuel Consumption and Generation Data from United States Energy Information Administration, Form 923, United States Department of Energy
<http://www.eia.gov/electricity/data/eia923>

Pollution control data (FGD and FGP equipment) from United States Energy Information Administration, Form 860, United States Department of Energy
<http://www.eia.gov/electricity/data/eia860/index.html>

Emissions factors for fuel-based generation from United States Environmental Protection Agency "Emission Factors for Greenhouse Gas Inventories", November 7, 2011,
<http://www.epa.gov/climateleadership/documents/emission-factors.pdf>